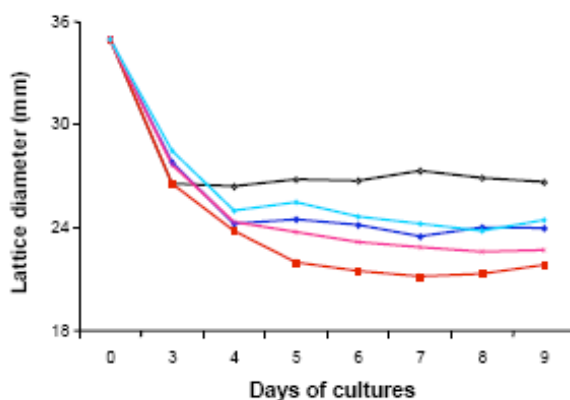


## Fibrosis Disease Models

1. **In vivo fibrosis disease models:** Fibrosis is usually developed during chronic disease processes, and is irreversible in most situations. We can create lung fibrosis (using bleomycin), liver fibrosis (using DEN), peritoneal adhesion (using surgical method) and intestinal fibrosis (using hapten to induce chronic inflammation and fibrosis) in rodent animals.
  
2. **In vitro fibrosis disease model:** Using collagen to build tridimensional collagen lattice to reproduce a tissue-like environment which provides more physiological conditions than classical monolayer cultures on plastic. This is a high throughput method for screening compounds or other substance to identify their potential capability for activating/deactivating fibroblasts and increasing/decreasing matrix remodeling.



**Effect of compounds on human fibroblast contractile activity-Tridimensional collagen lattice (In vitro fibrosis model)**